



# Linking spatial planning and energy – the SPECIAL project

## Dr Hugh Ellis, Head of Policy, Town and Country Planning Association

APSE Energy: Municipal Energy - Local Leaders Forum

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### **Overview**



Introduction to TCPA and SPECIAL

- Planning context challenges and opportunities
  - New policy context for planning and energy in England
  - Integrating energy and spatial planning

 Lessons from Europe: best practice in spatial planning and energy – case studies





## **Town & County Planning Association - Objectives**



- Secure a decent, well designed home for everyone, in a human-scale environment combining the best features of town and country
- Empower people and communities to influence decisions that affect them
- Improve the planning system in accordance with the principles of sustainable development

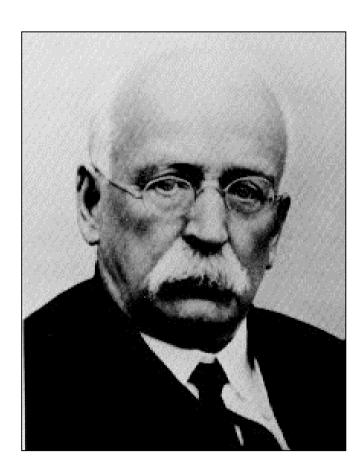




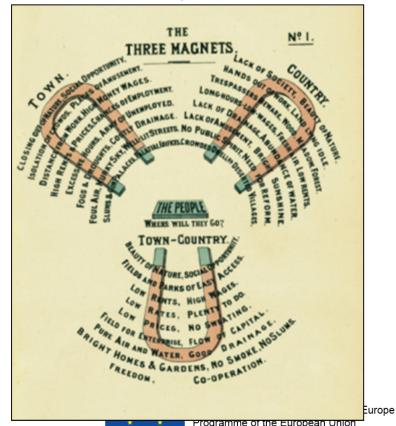
### **History**



Founded as the **Garden Cities Association** in **1899** by **Sir Ebenezer Howard** in response to 19th century problems.



'Town and country must be married'



What makes a Garden City for today?









### **SPECIAL Project**





Building the capacity of Town Planning Associations to plan and deliver sustainable energy solutions

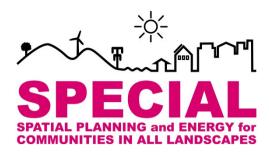
Integrating spatial planning and energy planning



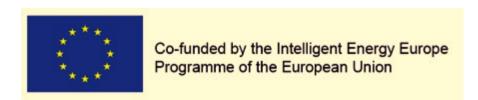




### **SPECIAL** Key objectives



- To build the capacity of Town Planning Associations to integrate sustainable energy solutions into spatial planning training, practice, and delivery.
- To exchange experience and competences to deliver the integration of sustainable energy into spatial planning strategies at local and regional levels.
- To improve the energy-related competence of planners working within local authorities through piloting integrated spatial planning strategies for low carbon towns and regions.





#### **SPECIAL Partners**



#### **Town Planning Associations across Europe:**

UK: TCPA

Sweden: Swedish Society for Town & Country Planning

Irish Planning Institute/South Dublin CC

Hungary: Hungarian Urban Knowledge Centre

Italy: National Centre for Town Planning Studies

Greece: The Org. for the Master Plan and Environmental

Protection of Greater Macedonia (ORTH)

Germany: German Institute of Urban Affairs

Austria: Provincial Govt of Styria, Dept Spatial Planning





# UK SPECIAL Multiplier Organisations – help to deliver training



- 1. RTPI Learn (Royal Town Planning Institute online modules)
- 2. PUSH (Partnership for Urban South Hampshire)
- 3. Sustainability East (Climate change partnership in the East of England)
- CLASP (Climate change partnership in North West England)
- 5. Association for Public Service Excellence (APSE) Energy Local Authority Energy Collaboration
- Hertfordshire County Council Building Futures (Sustainable Design Toolkit and Awards, & Herts Design Review Panel)
- 7. Department for Energy and Climate Change
- TCPA groups (Policy Council, Trustees, New Communities Group and Planning & Climate Change Coalition)



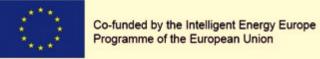


## Portfolio of modular training materials



- Challenges of climate change and sustainable energy supply
- Framework of spatial planning and sustainable energy
- 3. Strategies, tools and instruments for integration of spatial planning and sustainable energy
- 4. Infrastructure and implementation at a local level
- 5. Stakeholder inclusion, participation processes and communications





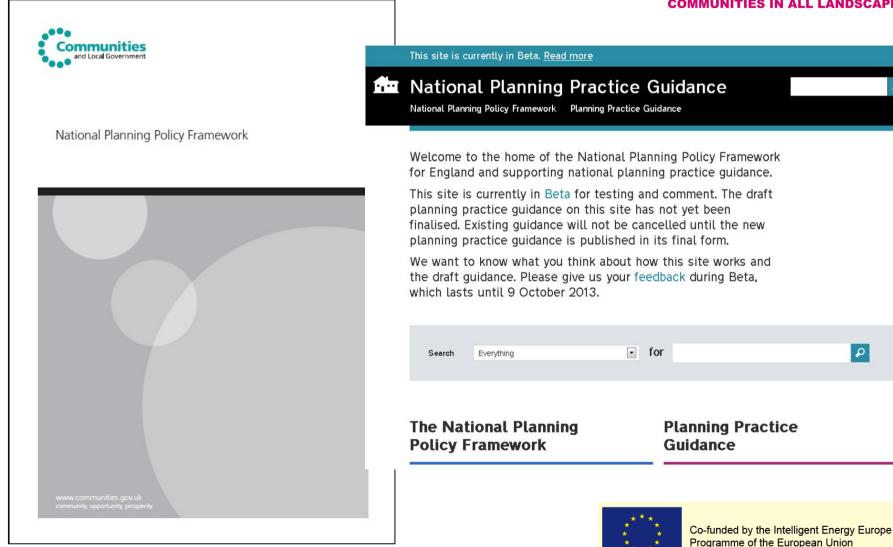
## Planning reform





## New policy context for planning and energy in England





## Integrating energy and spatial planning



- 1. Corporate energy strategy
- 2. Strong evidence base
- 3. Strong local plan policy



## Lessons from training weeks





England Sweden Germany



## What makes delivery of sustainable energy successful?



#### **Key Issues:**

- Differences in planning structures and policy
- Differences in culture and politics
- Finance and funding
- Skills and resources
- Social justice





## **England: Strengths and weaknesses**



#### **Strengths**

 Strong planning powers at the local level

#### Weaknesses

- Weak national policy on linking spatial planning and energy
- BIG SIX Oligarchy
- Uncertainty of investment
- Weaknesses in building standards
- Lack of skills
- Lack of political commitment





## **England: Examples**

- Nine Elms and Battersea Power Station energy opportunity mapping
- GLA District Heating Manual for London planners
- Thameswey Energy's Central Milton Keynes district energy network







## Sweden: Strengths and weaknesses



#### **Strengths**

- Strong on policy at national level
- Positive behavioural change
- Local authority planning and energy departments working together
- Nuclear power

#### Weaknesses

- Not that strong planning structures
- Low on social justice
- Investment privatisation of energy
- Shift from DHP to private control
- Nuclear power





## Sweden: Example



#### Western Harbour, Malmö

The comprehensive planning approach has created a new area of Malmo in the Western Harbour which relies on 100 % locally renewable energy:

- Sun, wind and water
- District heating linked to City DH system
- Minimised energy consumption
- Integrated spatial planning & energy planning
- Energy planning team integrated within the Planning Department of the municipality
- Environment Department = driving force in the Western Harbour, working groups combining all departments in the planning of the development





## Germany: Strengths and weaknesses



#### **Strengths**

- Strong political structures Federal and local government
- Culture open, honest, consensus on renewables
- Local authority ownership of energy generation AND supply
- Social justice and inclusive strategies
- Several funding streams at local and Federal level

#### Weaknesses

- Policy not stronger
- Spatial planning not stronger







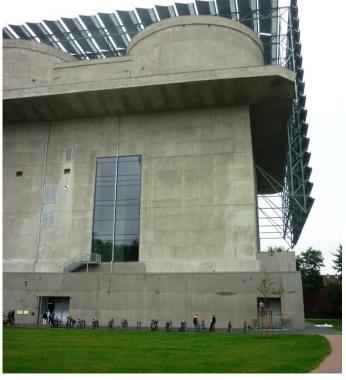
## **Germany: Examples**

- Hamburg Energy hill and Energy Bunker
- The Energy Bunker and Energy Hill were excellent examples of how renewable energy had been positively planned for.
- The lead role of the municipality in Germany allows for much more integrated approaches with spatial planning.

#### Re-Municipalisation

- Positive trend in Germany which helps to link spatial planning and energy planning.
- Allows more control for municipalities.
- Provides local economic benefits to the community.



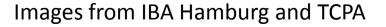


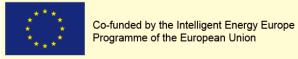
### **Hamburg Energy Hill**



From toxic waste dump to prime example of renewable energy generation







Wind power

**Solar power** 

**Biomass** 

Geothermal power

Methane gas



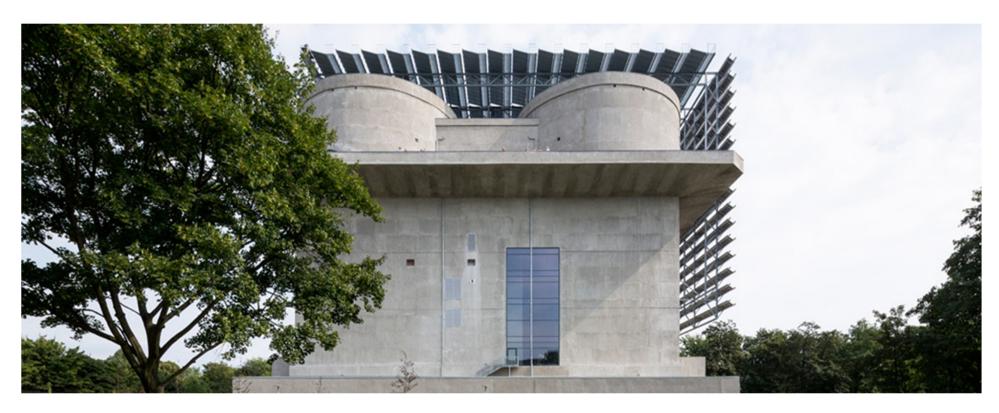


### **Hamburg Energy Bunker**



Former air raid bunker converted to hot water storage from renewable forms of energy.

Supplies district with renewable heat, while feeding renewable power into the Hamburg distribution grid.



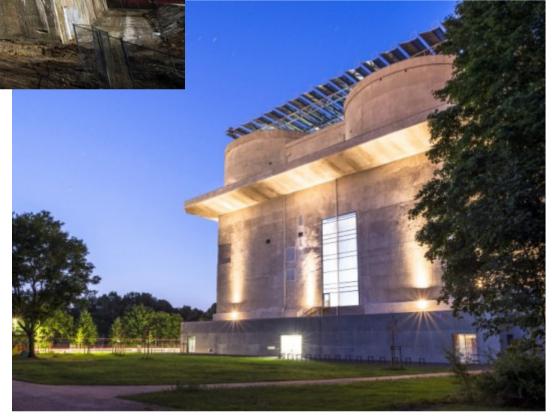
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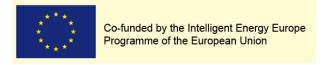




### Linking Spatial Planning & Energy Planning: How to make it happen in the UK



- 1. Strong political leadership and support
- 2. Effective and inclusive cross-departmental working
- 3. Effective and integrated policy frameworks at regional, city and masterplan scales
- 4. Effective and transparent public-private partnerships and funding streams



### What SPECIAL can offer



- Resources
- Cross sector workshops
- Networking with other Multipliers
- Study visits (UK, Hamburg)
- Political awareness
- Case studies
- Assignments



### We need your ideas!



What training / events on the integration of planning and energy would be useful for you?

